

IN THE CLAIMS:

1. (Original) A portable and autonomous biological detector (1) enabling the presence of biological agents of the bacteria, viruses, protozoan, or toxin type to be detected in a sample, wherein it integrates into a same body (2):

- means (8) to extract a sample from the environment, be it solid, liquid or gaseous,
- means (4) for the biological culture or magnification of said sample,
- detection means (5) inducing a reaction, said reaction being either colourmetric and visible to the naked eye thanks to a transparent viewfinder (9), or detectable by a separate system.

2. (Original) A portable and autonomous biological detector (1) according to Claim 1, wherein the reaction is detected by a physical and/or optical system such as a laser or by infrared light, ultraviolet light or by electron beam.

3. (Currently amended) A biological detector (1) according to Claim 1 ~~Claims 1 or 2~~, wherein the sample extraction means (8) are of the manual or automatic type.

4. (Original) A biological detector (1) wherein the sample extraction means (8) are in the form of a sampling brush.

5. (Currently amended) A biological detector (1) according to Claim 1 ~~any one of Claims 1 to 3~~, wherein the sample extraction means (8) incorporate a biocollector.

6. (Currently amended) A biological detector (1) according to Claim 1 ~~any one of Claims 1 to 3~~, wherein the sample extraction means (8) are constituted by a syringe.

7. (Currently amended) A biological detector according to Claim 1 ~~any one of Claims 1 to 6~~, wherein the sample extraction means (8) are in the form of a plug (3) able to be screwed or nested onto the body (2) of the biological detector and incorporating a lip (15) ensuring its

sealing with this body, such plug being made of stainless metal or a plastic metal and provided with the instrument enabling the extraction of the samples.

8. (Currently amended) A biological detector according to Claim 1 ~~any one of Claims 1 to 7~~, wherein the culture or magnification means incorporate a culture medium (11) contained in a breakable ampoule (10) so as to allow the sample to be brought into contact with said culture medium (11).

9. (Currently amended) A biological detector according to Claim 1 ~~any one of Claims 1 to 8~~, wherein the magnification means (4) for the samples comprise a culture chamber (10) containing a culture or magnification medium (11) adapted to the type of suspected biological agent, said chamber being provided with heating means (7).

10. (Currently amended) A biological detector according to Claim 1 ~~any one of Claims 1 to 9~~, wherein the means (5) to detect biological agents comprise biological substances such as enzymes, antibodies, proteins, cellular fragments or sequences of DNA or RNA.

11. (Original) A biological detector according to Claim 10, wherein the biological substances are associated with chemical substances such as metalloids, colloids, or colorants whose reaction with an antigen enables the visualisation of the detection of the suspected biological agent.

12. (Currently amended) A biological detector according to Claim 1 ~~any one of Claims 1 to 11~~, wherein the means (5) to detect biological agents comprise a support impregnated with specific antibodies for the suspected biological agent, enabling the immuno-detection of said biological agent.

13. (Currently amended) A biological detector according to Claim 1 ~~any one of Claims 1 to 12~~, wherein it incorporates a septum (6) placed near to the culture chamber (10) so as to enable the extraction by syringe of said culture.

14. (Currently amended) A biological detector according to Claim 1 ~~any one of Claims 1 to 13~~, wherein the detection target may be the suspected biological agent, a product of its metabolism, a molecule or its metabolites.

15. (Currently amended) A biological detector according to Claim 1 ~~any one of Claims 1 to 14~~, wherein the suspected biological agent is anthrax (*Bacillus anthracis*) or the smallpox virus.

16. (Currently amended) A biological detector according to Claim 1 ~~any one of Claims 1 to 15~~, wherein it is in the form of a tube (2) incorporating at one end means (8) to extract the sample, in its median part the means (4) enabling the culture or magnification of said sample and at the other end the means (5) to detect the suspected biological agent, these means being associated with sealing means.

17. (Currently amended) A biological detector according to Claim 1 ~~any one of Claims 1 to 16~~, wherein it constitutes packaging means for the magnified culture enabling its subsequent analysis and use as evidence.

18. (Currently amended) A biological detector according to Claim 1 ~~any one of Claims 1 to 17~~, wherein it incorporates a system of power supply that supplies the heating means (7).

19. (Currently amended) A biological detector according to Claim 1 ~~any one of Claims 1 to 18~~, wherein it comprises a pilot light indicating the end of the culture or biological magnification phase and the onset of the detection phase.

20. (Currently amended) A biological detector according to Claim 1 ~~any one of Claims 1 to 19~~, wherein it comprises security means preventing it from being opened, deliberately or not, after the sample has been inserted.

21. (Cancelled)